



# OPX-SS Weighing Scale USER'S MANUAL



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# SUMMARY

The OPX-SS waterproof scale uses a high-precision resistor strain type sensor and the latest carefully designed and manufactured single-chip microcomputer, mainly for the need of waterproof weighing places, such as shops, fish markets, seafood and meat processing establishments.

## SAFETY PRECAUTIONS

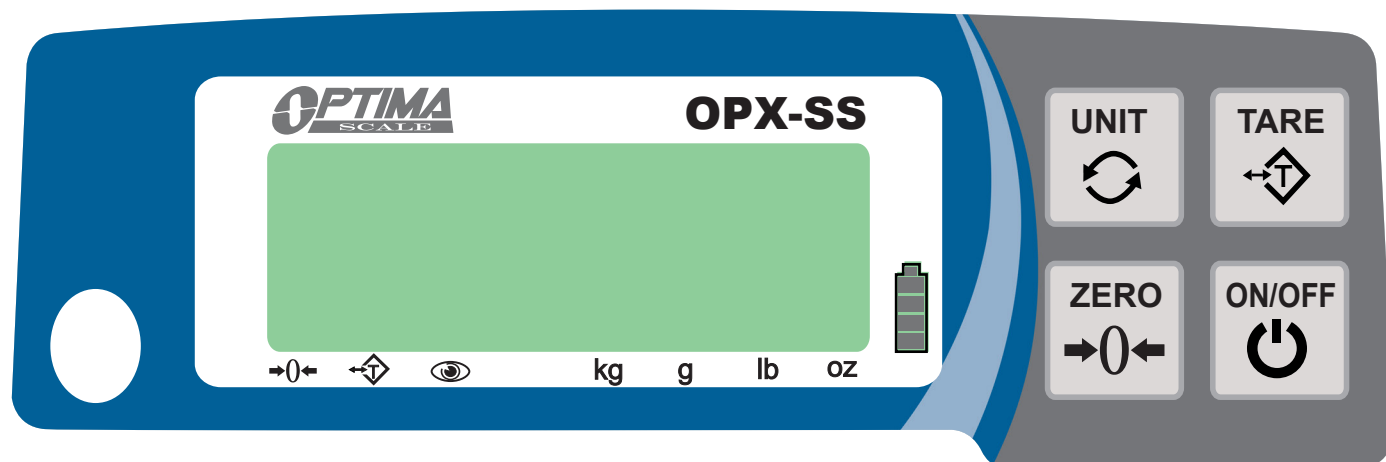
- To avoid damaging the battery do not keep charger plugged in once battery is fully charged.
- Avoid installing the balance in direct sunlight. This may cause poor performance or malfunctions.
- If the balance will not be used for a long period of time, remove all batteries from the battery compartment to avoid leakage, which may cause damage to the instrument.
- Avoid overloading or dropping material onto the platform as that may damage the balance.
- Place the weight on the center of the pan for accurate weighing.
- Make sure the weight is not over the Max capacity as it could damage the load cell inside.
- Material that has a static electric charge could influence the weighing. Discharge the static electricity of the samples, if possible. Another solution to the problem is to wipe both sides of the pan and the top of the case with an anti-static agent.

## PREPARATIONS & SET UP

- Place your balance on a stable and level table. Then level your balance by adjusting the feet to center the bubble in the spirit level.
- Plug into a wall outlet to avoid interference with other wirings.
- Turn on the balance while there is no load on the pan.
- We suggest to warm-up the balance by powering on 15 minutes before use for accurate weighing.
- Calibration may be required before weighing when the balance is initially installed or moved from a location.

# DISPLAY AND KEY DESCRIPTION

## LCD DISPLAY



Indication sign: Zero Tare Stable Battery Level



### On/Off

Powers the scale on or off.



### ZERO

Used to return the display to zero if a small weight reading is left while the scale is empty/unloaded.



### TARE

Used to deduct the weight of an item or container. When pressed the symbol will appear and the reading will go to zero. Press again to exit the tare mode and show gross weight.



### UNIT

Shifts between the units (kg, g, lb, or oz).





### Battery


Five bars are used to indicate battery voltage. Battery is low voltage when only the bottom bar is lit. When the bottom bar flashes, the scale needs to be charged.

# OPERATING INSTRUCTIONS

## Power On

- Turn on the power by pressing the  button. Once on, the scale will auto-check and count down from 9-0 sequentially. It will then show the voltage for 2 seconds before entering the weighing mode. To power off, press the  button while balance is on.


## Zeroing

- If the screen reads any number other than 0 before weighing, while there is nothing on the scale, press the [ZERO] key to set to 0. The  indicator light will show.

## Unit Selection

- To switch between measuring units (kg, g, lb, oz) press the [UNIT] key












## Tare Function

- Put a container you wish to use on the pan, then press the [TARE] key and the  LED light will display and the scale will reset back to 0
- Add your sample to the container to weigh without the weight of the container
- To exit Tare mode simply press either [TARE] or [ZERO] key











**Note:** If you remove your container the scale will show the minus weight of the container.

# USER SETTINGS

## External Calibration
















- When the scale does not read accurately, you may calibrate it with a calibration weight.
- Power on the scale and let the scale self-test. When the display shows "000000", press the  +  +  +  keys in turn. Then press the ZERO  key to enter the external calibration. The display will show "CAL". (If the 4 key sequence errors or timeouts, It will return to normal weight mode).
- Press ZERO  key again to display " 0 ".
- Now enter the weight of the calibration weight you will be using.
- Its recommended to use 2/3 of the Max. Capacity as your calibration weight (ex. if your max capacity is 15kg, use a 10kg/10,000g weight).
- To enter the value of your calibration weight (in grams) Press UNIT  to increase the value by 1 and TARE  to add a 0 to the end of the number (ex. to enter 10,000g you would press UNIT  once and TARE  4 times.)
- Add your weight to the scale, once stable press the ZERO  key to complete calibration
- After that the display will show the current weight. If the calibration is outside the range of  $\pm 10\%$  the entered weight, the display will show " Err c ", and the external calibration is invalid and must be repeated.

## Units and Display Brightness Setting

- OPX-SS has kg, g, lb, oz weighing units that users can choose from.
- Power on the scale and allow to self test, when the display shows "000000" press the  +  +  +  keys in turn and then press the UNIT  key to enter presetting
- The LED light over one of the kg, g, lb, oz unit indicators will turn on and the display will read "on" or "off" (off removes use of that unit mode).
- Use the TARE  key to toggle between on or off.
- Press ZERO  to confirm.
- To switch to the next unit press the UNIT  key.
- Once you've toggled through all 4 units the display will show "LED x" (x=0-4) 0= dim; 4 = Brightest.
- Use the TARE  key to toggle between 0-4 to choose your setting.
- Press ZERO  to confirm.

# USER SETTINGS

## Multi-Parameter setting

- When the scale does not read accurately, you may calibrate it with a calibration weight.
- Power on the scale and let the scale self-test. When the display shows "000000", press the  +  +  +  keys in turn. Then press the TARE  key to enter the parameter settings.
- The display will show "NB x" (x= 0-3), Press TARE to select, press ZERO to confirm.
- **The range of key zero settings:** The display will show "kz x"
  - 0 :  $\pm 2.7\%$  FS, (FS=Full Scale)
  - 1 :  $\pm 5\%$  FS,
  - 2 :  $\pm 10\%$  FS,
  - 3 :  $\pm 20\%$  FS
- Press TARE  to select, press ZERO  to confirm.
- **Zero trace range setting:** The display will show "zt x.xd"
  - 0.0d,
  - 1.0d,
  - 1.5d,
  - 2.0d,
  - 3.0d
- Press TARE  to select, press ZERO  to confirm.
- **Zero display range setting:** The display will show "zdip x"
  - 0:disabled,
  - 1:within a range $\pm 3D$  display as Zero,
  - 2: zeros within  $\pm 5d$  display range
- Press TARE  to select, press ZERO  to confirm.
- **Energy-saving features setting:** The display will show "ec x"
  - 0:disabled
  - 1: stability for 10 seconds to enter the power saving mode,
  - 2: stability for 30 seconds to enter the power saving mode,
  - 3: 2 minutes to enter power saving mode
- Press TARE  to select, press ZERO  to confirm.
- **Weighing display settings:** The display will show "dis x"
  - 0: the weighing display continuous change,
  - 1: show stability changes
- Press TARE  to select, press ZERO  to confirm.

# USER SETTINGS


## Multi-Parameter setting

- **Back Display Settings**

- In the normal weighing mode, press the ZERO →0← key for about 3 seconds to enter settings for the back display. The display show “Bled 0”
  - Bled 0 = the back display is off
  - Bled 1 = the back display is on
- Press TARE ←T→ to select, press ZERO →0← to confirm.

## BATTERY



- When the  flashes, that indicates that the user needs to charge the scale. Connect the scale to AC power with the included power cord. The scale is charged when all five bars are lit.
- The power cable is placed inside the battery cover located under the scale.

## MAINTENANCE & SERVICE

- Electronic scales are made up of sensitive precision components and microcomputer circuit. So correct use and maintenance is optimal for a long lasting unit.
- Handle with care and avoid strong vibrations, shock or impact.
- When using DC power, you should charge the battery in a timely manner to prevent the battery voltage from being too low lead to function improperly or not power on. When not in use, the scale should be switch powered off to conserve battery.
- If the scale will not be used over a long period of time, the scale should be wiped clean, wrapped in plastic bags preferably with a desiccant. The scale should be charged once every three months to ensure a longer battery life.
- When you want to store the scale, please do not store in direct sunlight or a moist place.
- Do not overload the scale, it could damage the scale and void your warranty.



# SPECIFICATIONS

UNIT\MODEL	OPX-SS6	OPX-SS15	OPX-SS30
Capacity	6 kg (13 lb)	15 kg (33 lb)	30 kg (66 lb)
Resolution	0.2 g	0.5 g	1 g
Dimensions	9" x 10.5" x 4.25"		
Pan Size	8.5" x 7"		
Response	3 seconds		
Display	6 digit, 1" height, LED dual front and back display		
Tare	Up to 3d		
Overload alarm	Auto alarm when load over capacity		
Alarm	Protect automatically when the load is 125% of capacity		
Power	100V - 240V, 50Hz / 60Hz; 3.7V 2200mA/h Rechargeable lithium battery		
Temperature	Storage: -10°C - 50°C (14-120°F) Work: 10° - 30°C (50-86°F)		
Weight	7 lbs		

## CONTACT US

Please e-mail [sales@optimascale.com](mailto:sales@optimascale.com) for any sales related question

Please e-mail [support@optimascale.com](mailto:support@optimascale.com) for any support related questions

Don't forget to visit our website at:

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